

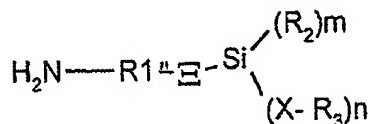
WHAT IS CLAIMED IS:

1. A polyisocyanate composition comprising at least two distinct oligomeric compounds comprising at least  
5 three units and at most 5 units chosen from aminoalkylsilane units and diamino units and at least one functional group chosen from isocyanate functional groups and from those which derive therefrom, characterized in that one of said  
10 compounds comprises at least two aminoalkylsilane units and in that another comprises at least two diamino units.
2. The composition as claimed in claim 1, characterized  
15 in that the ratio of the aminoalkylsilane units to the diamino units is at least equal to 15%.
3. The composition as claimed in claims 1 and 2,  
20 characterized in that said oligomeric compounds each represent at least 3%, advantageously at least 5%, preferably at least 8%.
4. The composition as claimed in claims 1 to 3,  
25 characterized in that said oligomeric compounds each represent at most  $2/3$ , advantageously, preferably  $1/3$ , by weight of the composition.
5. The composition as claimed in claims 1 to 4,  
30 characterized in that, with regard to the combined oligomeric compounds (that is to say, oligomeric compounds comprising at least three units and at most 5 units chosen from aminoalkylsilane units and diamino units and at least one functional group chosen from isocyanate functional groups and from  
35 those which derive therefrom), the compounds in which the aminoalkylsilane units represent at least

two fifths of the units under consideration (aminoalkylsilane units and diamino units) form at least 1/5 of the mixture.

5 6. The composition as claimed in claims 1 to 5, characterized in that said functional groups which derive from the isocyanate functional groups are chosen from the carbamate, uretidinedione, isocyanurate, biuret, allophanate, 10 pseudoallophanate, 4,6-dioxo-2-iminohexahydro-1,3,5-triazine, iminoxadiazinedione and 2-imino-4-oxo-1,3-diazetidione functional groups.

15 7. The composition as claimed in claims 1 to 6, characterized in that said aminoalkylsilane unit corresponds to the formula I:



where  $\Xi$  represents either a single bond or a chalcogen, preferably an oxygen;

20 where m represents an integer within the closed range (that is to say comprising the limits) 0 to 3, advantageously at least equal to 2, preferably to 3;

where n represents an integer within the closed range (that is to say comprising the limits) 0 to 3, 25 advantageously at most equal to 2;

with the condition that  $m+n=3$ ;

where  $\text{R}_2$  represents a linear or branched hydrocarbon chain of 1 to 20 carbon atoms, preferably of 1 to 12 carbon atoms, it being possible for this hydrocarbon 30 chain to be aliphatic, including aralkyl, or aromatic, optionally interrupted by heteroatoms, it being possible for the  $\text{R}_2$  chain to be of alkylene type if the two terminal carbons of this chain are bonded to the silicon;

where R<sub>3</sub> represents a linear or branched hydrocarbon chain of 1 to 20 carbon atoms, preferably of 1 to 12 carbon atoms, it being possible for this hydrocarbon chain to be aliphatic or aromatic or aralkyl, optionally interrupted by heteroatoms, it being possible for the R<sub>3</sub> chain to be of alkylene type if the two terminal carbons of this chain are bonded to two groups X carried by the same silicon atom; where X = O or S.

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8. The composition as claimed in claims 1 to 7, characterized in that said compounds are compounds comprising a biuret functional group.

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9. The composition as claimed in claims 1 to 8, characterized in that its content of biuret functional group ( $>N-CO-N(-)-CO-N<$ , MW = 84) is at least equal to 5%, advantageously to 8%, preferably to 10%.

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10. The composition as claimed in claims 1 to 9, characterized in that its content of biuret functional group ( $>N-CO-N(-)-CO-N<$ , MW = 84) is at most equal to 20%, advantageously to 18%, preferably to 16%.

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11. The composition as claimed in claims 1 to 10, characterized in that it exhibits a content of isocyanate functional group (free and blocked) at least equal to 5%, advantageously to 8%, preferably to 10%, more preferably to 12%.

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12. The composition as claimed in claims 1 to 11, characterized in that it exhibits a content of free isocyanate functional group at least equal to 5%, advantageously to 8%, preferably to 10%, more

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preferably to 12%.

13. The composition as claimed in claims 1 to 11,  
characterized in that it exhibits a content of  
5 blocked isocyanate functional group at least equal  
to 5%, advantageously to 8%, preferably to 10%, more  
preferably to 12%.

14. The composition as claimed in claims 1 to 13,  
10 characterized in that it exhibits a viscosity at  
most equal to 6000 mPa.s.

15. The composition as claimed in claims 1 to 14,  
characterized in that it comprises at most 2%,  
15 advantageously at most 1%, preferably at most 0.5%,  
by weight of isocyanate monomer  
(diisocyanatoalkane).

16. The composition as claimed in claims 1 to 15,  
20 characterized in that it comprises at most 2%,  
advantageously at most 1%, preferably at most 0.5%,  
by weight of isocyanatoalkylsilane (corresponding to  
the aminoalkylsilane).

25 17. A process for the preparation of an isocyanate  
composition comprising biuret functional groups,  
characterized in that at least one isocyanate  
monomer is brought into contact with an  
aminoalkylsilane (or silanoalkylamine) so that an  
30 isocyanatoalkylsilane is formed.

18. The process as claimed in claim 17, characterized in  
that at least 5%, advantageously 7%, preferably 10%,  
of biuret functional groups not carrying a  
35 silanoalkyl chain are formed (with respect to the  
combined biuret functional groups).

19. The process as claimed in claims 17 and 18,  
characterized in that, expressed as equivalents, the  
ratio of the isocyanate functional groups to the  
5 number of hydrogens carried by the amine functional  
groups is at least 4, advantageously at least 6,  
preferably at least eight.